

Message

**From:** Post, Gloria [Gloria.Post@dep.nj.gov]  
**Sent:** 1/6/2020 5:15:49 PM  
**To:** Lau, Chris [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=dd4494e8927a4d78a5d2b9b20c618d4e-Lau, Chris]; Bergman, Erica [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=user69ab393b]; Lindstrom, Andrew [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=04bf7cf26aa44ce29763fbc1c1b2338e-Lindstrom, Andrew]  
**CC:** Buckley, Timothy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=197a3461d9824a17850f34cc2b0b37fe-Buckley, Timothy]; Strynar, Mark [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5a9910d5b38e471497bd875fd329a20a-Strynar, Mark]; Washington, John [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fdc3e8ce9f1d45c4894881ff420ca104-Washington, John]; Goodrow, Sandra [Sandra.Goodrow@dep.nj.gov]  
**Subject:** RE: Solvay - feedstock

Thanks for including me. Please keep me in the loop for any further discussions about this.

---

**From:** Lau, Chris <Lau.Christopher@epa.gov>  
**Sent:** Monday, January 6, 2020 11:22 AM  
**To:** Bergman, Erica <Erica.Bergman@dep.nj.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>  
**Cc:** Buckley, Timothy <Buckley.Timothy@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>; Washington, John <Washington.John@epa.gov>; Post, Gloria <Gloria.Post@dep.nj.gov>; Goodrow, Sandra <Sandra.Goodrow@dep.nj.gov>  
**Subject:** [EXTERNAL] RE: Solvay - feedstock

Hi Erica:

We typically would order 50 g of PFAS from commercial sources, if we can afford them. That should be sufficient for us to expand into other endpoints beyond liver toxicity (such as developmental toxicity, endocrine toxicity, etc), if needed. So, if Solvay is willing to provide 50 g for us, that'll be great. Many thanks.

Chris

---

**From:** Bergman, Erica <Erica.Bergman@dep.nj.gov>  
**Sent:** Monday, January 06, 2020 11:02 AM  
**To:** Lau, Chris <Lau.Christopher@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>  
**Cc:** Buckley, Timothy <Buckley.Timothy@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>; Washington, John <Washington.John@epa.gov>; Post, Gloria <Gloria.Post@dep.nj.gov>; Goodrow, Sandra <Sandra.Goodrow@dep.nj.gov>  
**Subject:** RE: Solvay - feedstock

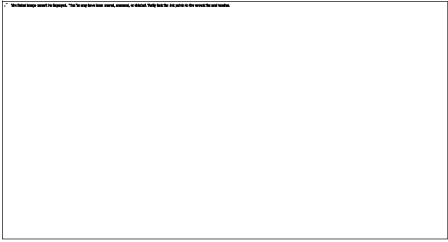
Chris,

Thank you for the information on possible tox studies. A **Ex. 5 Deliberative Process (DP)** is there a quantity that you would also need beyond the preliminary work? **Ex. 5 Deliberative Process (DP)**

Thank you,

*Erica Bergman*  
NJ Department of Environmental Protection

Site Remediation Program – Bureau of Case Management  
401 E. State Street - Mail Code 401-05F  
P.O. Box 420  
Trenton, NJ 08625-0420  
[erica.bergman@dep.nj.gov](mailto:erica.bergman@dep.nj.gov)  
609-292-7406



---

**From:** Lau, Chris <[Lau.Christopher@epa.gov](mailto:Lau.Christopher@epa.gov)>  
**Sent:** Monday, January 6, 2020 10:43 AM  
**To:** Lindstrom, Andrew <[Lindstrom.Andrew@epa.gov](mailto:Lindstrom.Andrew@epa.gov)>  
**Cc:** Buckley, Timothy <[Buckley.Timothy@epa.gov](mailto:Buckley.Timothy@epa.gov)>; Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>; Washington, John <[Washington.John@epa.gov](mailto:Washington.John@epa.gov)>; Bergman, Erica <[Erica.Bergman@dep.nj.gov](mailto:Erica.Bergman@dep.nj.gov)>  
**Subject:** [EXTERNAL] RE: Solvay - feedstock

Hi Andy:

I'll be happy to participate in limited tox research with these chemicals. For the new RAP cycle, we are approved (regrettably not funded) to work on PFAS-induced hepatotoxicity and PK modeling, with in vivo, in vitro and in silico approaches with my collaborators Chris Corton, Brian Chorley and John Wambaugh. I have requested for some corporate fund to do the research but the major expense of our project is to purchase the new PFAS. Hence, if we can acquire some of these chemicals from Solvay, that'll make our studies imminently more feasible. Depending on the potency of these Solvay-specific PFAS, we'll probably need somewhere between 5-10 g for the preliminary work. Let me know if you need any additional information.

Thanks for involving us in your studies.

Chris

---

**From:** Lindstrom, Andrew <[Lindstrom.Andrew@epa.gov](mailto:Lindstrom.Andrew@epa.gov)>  
**Sent:** Monday, January 06, 2020 9:32 AM  
**To:** Lau, Chris <[Lau.Christopher@epa.gov](mailto:Lau.Christopher@epa.gov)>  
**Cc:** Buckley, Timothy <[Buckley.Timothy@epa.gov](mailto:Buckley.Timothy@epa.gov)>; Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>; Washington, John <[Washington.John@epa.gov](mailto:Washington.John@epa.gov)>; Bergman, Erica <[erica.bergman@dep.nj.gov](mailto:erica.bergman@dep.nj.gov)>  
**Subject:** FW: Solvay - feedstock

Chris,

Would you like to be part of this request for Solvay-specific PFAS for potential toxicology work?

This would be an excellent opportunity to start some paired analytical/tox studies. In vitro, in vivo - everything and anything would be helpful.

Please let us know how we can make our request as useful as possible. We understand that it may take a while to gear something up. But just having them available for potential tox studies would be important.

Thank you,

Andy

---

**From:** Washington, John <Washington.John@epa.gov>

**Sent:** Monday, January 6, 2020 8:23 AM

**To:** Strynar, Mark <Strynar.Mark@epa.gov>; Bergman, Erica <erica.bergman@dep.nj.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; McCord, James <mccord.james@epa.gov>

**Subject:** RE: Solvay - feedstock

Hi Erica,

This is great news. My first day back, I was just responding when Mark replied.

I would suggest that we receive **Ex. 4 CBI** as well. And if Solvay has multiple Lots of some **Ex. 4 CBI** would be good to get the multiple Lots. It would be easiest if 10 g could be sent to both RTP and Athens. Also, if they have assays for any of the Lots, these assays would be helpful for us in generating quantitative values.

Ten grams to both RTP and Athens of **Ex. 4 CBI** and Lot **Ex. 4 CBI** with any assays would be helpful for:

- 1) Seeing if unknown or trace amounts of additional **Ex. 4 CBI** Lot uniquely or just a few **Ex. 4 CBI** Lots
- 2) Identifying general proportions of **Ex. 4 CBI**
- 3) Characterizing variations within **Ex. 4 CBI** between Lots
- 4) Aiding us in determination of whether the **Ex. 4 CBI**
- 5) Generating quantitative data if assays are available.

For the same general reasons, we also would like 10 g to go to each RTP and Athens of any Grades/Lots of the **Ex. 4 CBI**

**Ex. 4 CBI**, " along with any assays. And for clarity for me, did you mean to say there is **Ex. 4 CBI**

**Ex. 4 CBI**

Thanks-  
John

---

**From:** Strynar, Mark <Strynar.Mark@epa.gov>

**Sent:** Monday, January 6, 2020 8:02 AM

**To:** Bergman, Erica <erica.bergman@dep.nj.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; McCord, James <mccord.james@epa.gov>; Washington, John <Washington.John@epa.gov>

**Subject:** RE: Solvay - feedstock

Hi Erica,

My first day back. I got your voicemail as well.

My opinion would be to get whatever you can from them if they are in a giving mood. **Ex. 4 CBI** and multiple lots will show production variability.

As far as how much is needed that depends on what the chemical will be used for. As for analytical 10 grams would supply us for a very long time. If some one wanted to do a fate and transport study or some dosed rodent studies later getting more than 10 grams would be ideal.

I am trying to decipher this "They also told us that the

Ex. 4 CBI

Ex. 4 CBI

Does this mean they use an chemical other than 1)

Ex. 4 CBI

or 2) the

Ex. 4 CBI

Mark

---

**From:** Bergman, Erica <Erica.Bergman@dep.nj.gov>

**Sent:** Friday, January 03, 2020 4:16 PM

**To:** Strynar, Mark <Strynar.Mark@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; McCord, James <mccord.james@epa.gov>; Washington, John <Washington.John@epa.gov>

**Subject:** Solvay - feedstock

All,

My bureau chief and I spoke with Solvay on Jan. 2, and we discussed Solvay supplying us with samples of their current PFAS feedstock, since they have now agreed to cooperate. I think it's great news!

I have some questions for Solvay in the meantime regarding a table they submitted

Ex. 4 CBI

Ex. 4 CBI

Ex. 4 CBI

Questions for you all: How much of the liquid or solid do you need?

Ex. 4 CBI

Ex. 4 CBI

Thanks, Erica